

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Najmuddin, Ilyas Juzer

Serial No.: 10/081,090

Filed: February 22, 2002

For: Method and Apparatus  
For Detecting Fractures  
Using Frequency Data  
Derived from Seismic Data

Group Art. Unit: 2862

Examiner: Taylor

Atty. Docket: 94.0048

## Certificate of Faxing [37 CFR 1.8(a)]

I hereby certify that this correspondence is being transmitted  
as a facsimile to 703-746-4509, attn. Mr. Taylor on March  
14, 2003Name of the person signing this certificate: Dan H. JM  
Signature: [Signature]PRELIMINARY AMENDMENTHonorable Assistant Commissioner  
of Patents  
Washington, D.C. 20231

Dear Sir or Madam:

This is a preliminary amendment.

AMENDMENTS

Please amend this application as follows:

**I. In The Claims**

Please amend the claims as follows:

- Sub  
D1  
a
1. (Amended) A method of detecting fractures in a fractured zone in an Earth formation, comprising the steps of:
    - a. propagating a plurality of acoustic waves through the fractured zone so that the plurality of acoustic waves reflect off a horizon in the formation;

FAX RECEIVED

MAR 14 2003

TECHNOLOGY CENTER, 2000

Attorney Docket No. 94.0048

Received from &lt;+713 513 2060&gt; at 3/14/03 4:23:56 PM [Eastern Standard Time]